Hunter XC600

Hunter Sprinkler XC600 X-Core 6-Station Outdoor Irrigation Controller User Manual

Model: XC600

INTRODUCTION

This user manual provides comprehensive instructions for the installation, operation, and maintenance of your Hunter Sprinkler XC600 X-Core 6-Station Outdoor Irrigation Controller. The X-Core is an entry-level residential controller designed for reliable performance. It can be enhanced with a Solar Sync ET sensor (sold separately) to transform it into a smart controller, optimizing irrigation runtimes based on local weather conditions for efficient water conservation.

PRODUCT OVERVIEW AND FEATURES

Figure 1: Front view of the Hunter XC600 X-Core Controller with its protective door open, displaying the control panel and included keys.

The Hunter XC600 X-Core controller offers a range of features designed for ease of use and efficient irrigation management:

- **6-Station Control:** Manages up to six independent irrigation zones.
- **Multiple Programs:** Supports 3 independent programs (A, B, C) with 4 start times each, allowing for flexible scheduling.
- **Automatic Short Circuit Protection:** Protects the controller from electrical damage due to wiring faults.
- **Easy Retrieve Memory:** Stores all programming in non-volatile memory, ensuring settings are retained even during power outages.
- **Hunter Quick Check:** A diagnostic feature that helps identify and troubleshoot field wiring issues quickly.
- **ROAM Remote Control Compatibility:** Can be operated remotely with Hunter's ROAM Remote Control (sold separately).
- **Solar Sync ET Sensor Compatibility:** Integrates with the Solar Sync ET sensor for automatic seasonal adjustment and water conservation.

SETUP AND INSTALLATION

Mounting the Controller

Figure 2: The Hunter XC600 X-Core Controller securely mounted on an outdoor brick wall, ready for wiring connections.

1. Choose a suitable outdoor location, protected from direct sunlight and extreme weather conditions if possible, though the unit is designed for outdoor use.
2. Use the provided mounting template or mark the two mounting holes on the wall. Ensure the controller is level.
3. Drill pilot holes and insert appropriate wall anchors (if necessary).
4. Secure the controller to the wall using the provided screws.

Wiring Connections

Figure 3: Internal wiring compartment of the Hunter XC600 X-Core controller, showing the terminal block for station, common, and sensor wire connections.

- **Power Connection:** The controller operates on 120 Volts AC. Connect the power cord to a grounded outdoor outlet. For direct wiring, consult a qualified electrician.

- **Valve Wiring:** Connect one wire from each solenoid valve to a numbered terminal (1-6) on the controller.

- **Common Wire:** Connect the common wire from all solenoid valves to the terminal marked "COM". This is crucial for valve operation.

- **Master Valve/Pump Start Relay (Optional):** If using a master valve or pump start relay, connect its common wire to the "COM" terminal and its control wire to the terminal marked "MV".

- **Sensor Wiring (Optional):** For rain sensors or Solar Sync ET sensors, connect the sensor wires to the designated "SEN" terminals. Refer to your sensor's manual for specific wiring instructions. Ensure the sensor bypass switch is in the "ACTIVE" position if a sensor is connected.

OPERATING INSTRUCTIONS

The X-Core controller features a user-friendly dial and button interface for easy programming and operation.

Setting Date and Time

1. Turn the dial to the **Date/Time** position.
2. Use the **+** or **-** buttons to adjust the year, month, day, hour, and minute. Press the **>** button to move to the next setting.

Setting Start Times

1. Turn the dial to the **Start Times** position.
2. Use the **+** or **-** buttons to set the desired start time for Program A (P-A).
3. Press the **>** button to move to the next start time or program. You can set up to 4 start times per program.

Setting Run Times

1. Turn the dial to the **Run Times** position.
2. The display will show the program (e.g., P-A) and station number (e.g., S-1). Use the **+** or **-** buttons to set the run time for the current station.
3. Press the **>** button to move to the next station. Repeat for all stations in the program.
4. To switch programs (A, B, C), press the **PROG** button.

Setting Water Days

1. Turn the dial to the **Water Days** position.
2. Use the **+** or **-** buttons to select specific days of the week for watering. A blinking water drop icon indicates the selected day. Press **>** to move to the next day.
3. Alternatively, you can choose odd/even day watering or interval watering.

Manual Operation

- **Manual Single Station:** Turn the dial to **Manual**. Use the **>** button to select the station you wish to run. Use **+** or **-** to set the run time. The station will begin watering immediately.
- **Manual All Programs:** Turn the dial to **Manual**. Press the **PROG** button to select "ALL". All programmed stations will run sequentially.

System Off

To stop all automatic watering, turn the dial to the **System Off** position. The display will show "OFF".

Seasonal Adjust (with Solar Sync)

Your browser does not support the video tag.

Video 1: Official Hunter X-Core Irrigation Controller Product Guide. This video provides a detailed overview of the controller's features and programming, including water-saving capabilities like seasonal adjustment with Solar Sync.

If a Solar Sync ET sensor is connected, the controller will automatically adjust run times based on local weather. You can manually override this by turning the dial to **Seasonal Adjust** and setting a percentage. This feature helps optimize water usage throughout the year.

MAINTENANCE

- **Cleaning:** Periodically wipe down the controller's exterior with a damp cloth. Do not use abrasive cleaners or solvents.
- **Wiring Inspection:** Annually inspect all wiring connections for corrosion or damage. Ensure all terminals are secure.
- **Sensor Check:** If using a rain or ET sensor, ensure it is clean and free from obstructions. Test its functionality periodically according to the sensor's manual.
- **Winterization:** In regions subject to freezing temperatures, disconnect the power and drain all water from the irrigation system to prevent freeze damage to pipes and valves. The controller itself is designed for outdoor use but protecting it from direct ice buildup is recommended.

TROUBLESHOOTING

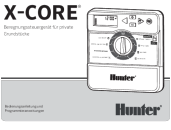| Problem	Possible Cause	Solution
Controller display is blank.	No power to the controller; tripped circuit breaker; faulty transformer.	Check power outlet, circuit breaker. Ensure transformer is securely connected.
A specific zone does not water.	Faulty solenoid; broken wire; clogged nozzle; system off or rain sensor active.	Check solenoid for clicks; inspect wiring for breaks (use Hunter Quick Check); clean or replace nozzles; ensure system is not off and sensor bypass is correct.
All zones do not water.	Master valve not opening; common wire disconnected; system off; rain sensor active.	Check master valve operation; verify common wire connection; ensure dial is not in "System Off" position; check rain sensor status.
"ERR" message on display.	Wiring short circuit detected (Automatic Short Circuit Protection).	Identify and repair the short circuit in the field wiring. The Hunter Quick Check feature can assist.

SPECIFICATIONS

Model Number: XC600

Product Dimensions: 5 x 7 x 10 inches

Item Weight: 1.2 Pounds

Voltage: 120 Volts (AC)

Material: Plastic

Color: Gray

Manufacturer: Hunter Industries

Country of Origin: USA

WARRANTY AND SUPPORT

For detailed warranty information, please refer to the warranty card included with your product or visit the official Hunter Industries website. Hunter Industries provides support for their products through their website and authorized dealers. You can find more information and support resources on the Hunter Store on Amazon or the official Hunter Industries website.

Related Documents - XC600

	[Hunter X-Core Residential Irrigation Controller Owner's Manual](#) Comprehensive guide to the Hunter X-Core Residential Irrigation Controller, covering installation, programming, features, and troubleshooting. Learn how to set dates, times, start times, run times, and utilize advanced features like Solar Sync and Cycle & Soak for efficient lawn watering.
	[Hunter X-CORE Irrigation Controller User Manual](#) This manual provides detailed instructions for the installation, programming, and operation of the Hunter X-CORE irrigation controller. It covers features such as setting schedules, using sensors, manual operation, and troubleshooting common issues.
	[Hunter X-CORE Irrigation Controller User Manual and Programming Guide](#) Comprehensive guide to installing, programming, and troubleshooting the Hunter X-CORE sprinkler system controller. Learn about features like Solar Sync, manual operation, and advanced settings.
	[Hunter X-CORE® Residential Irrigation Controller: Owner's Manual & Programming Guide](#) Comprehensive owner's manual and programming instructions for the Hunter X-CORE® Residential Irrigation Controller. Learn how to install, program, and troubleshoot your smart watering system for efficient lawn and garden care.
	[Hunter X-CORE Irrigation Controller User Manual](#) This document provides a comprehensive user manual and operating instructions for the Hunter X-CORE irrigation controller. It covers installation, programming, features, and troubleshooting for the 4, 6, or 8-zone indoor/outdoor controller.
	[Hunter X-Core Residential Irrigation Controller Owner's Manual](#) Comprehensive owner's manual and programming instructions for the Hunter X-Core Residential Irrigation Controller, including features, installation, operation, and troubleshooting.